

Form C-104
Rev. 09/2008**VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION**

Contract ID 090220-901 Date April 2, 2009
 County Pulaski Job No. J910603 / 44-2(221)
 Contractor Chester Bross Construction Original Bid Cost \$4,979,656.04
 Designed By Robby R. Rakestraw By Scott Gander
 VECP# 09-23 (to be completed by C.O.) Phone 573-221-5958
 VECP ☐ or VECP/PDU ☒

1. **Description of existing requirements and proposed change(s). Advantages/Disadvantages**
 The existing requirements called for a SP125BSM asphalt mix. Chester Bross Construction proposes substituting a SP125BSMR in lieu of this SP125BSM. The advantage of this change would reduce the mix cost due to a cost reduction in the material cost of the mix. This can be achieved by using a local source for the aggregate material for this mix.

2. **Estimate of reduction in construction costs.** \$72,867.93
3. **Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.**
 This change is predicted to have no negative effects on maintenance and operations.

APR 21 2009

4. **Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.**

April 2, 2009
 (date)

FHWA
 MO DIV
 RECEIVED

APR 21 2009

5. **Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.**

April 17, 2009
 (date)

No effect

(effect)

6. **Dates of any previous or concurrent submission of the same proposal.**

N/A
 (date and/or dates)

| | |
|-----------------|--------------------|
| DA | |
| ADA | |
| Planning | |
| ROW | |
| Env Review | |
| Env Pro | |
| Fin Mgr | |
| Fin Spec | |
| Fin Tech | |
| Bridge | |
| Civil Rights | |
| Safety | |
| Operations | |
| TE1 | |
| TE2 <u>FEGG</u> | <u>[Signature]</u> |
| TE3 | |
| TE4 | |
| | |
| | |

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments:

Recommend approval as 50/50 VE

Victoria Woods
Submitted By Resident Engineer

4-6-09
Date

Comments:

Recommend as 75/25 as a Practical Design VE

☒ Approval
RecommendedTom Stelmach

District Engineer

4-6-09
Date

☐ Rejection
Recommended

Comments:

I RECOMMEND APPROVAL of this VECP as a 75/25

☒ Approval
RecommendedJohn M. [Signature]Federal Highway Administration
Required for FHWA Full Oversight ProjectsApril 22, 2009

Date

☐ Rejection
Recommended

Comments:

David D. Coates☒ Approval

State Construction and Materials Engineer

4-23-09

Date

☐ Rejection

CHESTER BROSS CONSTRUCTION COMPANYP.O. Box 430
Hannibal, MO 63401Chester Bross, President
"Equal Opportunity Employer"Ph: 573-221-5958
Fax: 573-221-1892Contract I.D. 090220-901
Job No. J910603
Route I-44, Pulaski County

DATE: 4/2/2009

VECP

| <u>Bid Item</u> | <u>Qty</u> | <u>Unit</u> | <u>Material Cost for SP125BSM</u> | <u>Total</u> |
|---|------------|-------------|---------------------------------------|---------------|
| 4030132 ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125BSM MIX) | 16,338.10 | TN | \$ 56.56 | \$ 924,082.94 |

| <u>Bid Item</u> | <u>Qty</u> | <u>Unit</u> | <u>Material Cost for SP125BSMR</u> | <u>Total</u> |
|---|------------|-------------|--|---------------|
| 4030132 ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125BSM MIX) | 16,338.10 | TN | \$ 52.10 | \$ 851,215.01 |

TOTAL SAVINGS \$ 72,867.93


Project Manager

CHESTER BROSS CONSTRUCTION COMPANY



P.O. Box 430
Hannibal, MO 63401

Chester Bross, President
"Equal Opportunity Employer"

Ph: 573-221-5952
Fax: 573-221-1892

Contract I.D. 090220-901
Job No. J910603
Route I-44, Pulaski County

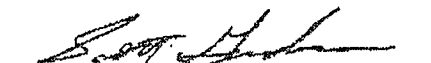
DATE: 4/2/2009

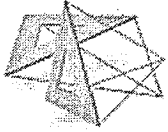
VECP

| <u>Bid Item</u> | <u>Qty</u> | <u>Unit</u> | <u>Bid Price for</u> <u>SP125BSM</u> | <u>Total</u> |
|---|------------|-------------|---|-----------------|
| 4030132 ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125BSM MIX) | 16,338.10 | TN | \$ 84.90 | \$ 1,387,104.69 |

| <u>Bid Item</u> | <u>Qty</u> | <u>Unit</u> | <u>Bid Price for</u> <u>SP125BSMR</u> | <u>Total</u> |
|---|------------|-------------|--|-----------------|
| 4030132 ASPHALTIC CONCRETE MIXTURE PG 76-22 (SP125BSM MIX) | 16,338.10 | TN | \$ 80.44 | \$ 1,314,236.76 |

TOTAL SAVINGS \$ 72,867.93


Project Manager



Thomas J Anna/SC/MODOT
04/07/2009 10:05 AM

To Brian A Williams/SC/MODOT@MODOT
cc Mike L Wake/D9/MODOT@MODOT
bcc
Subject Re: Fw: VE J9I0603

Brian,

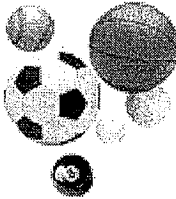
To follow-up our conversation, I'm sending this to you for any filing that may be needed. After speaking with Mike Wake in D-9, we do not feel changing the surface mix from SP125BSM to SP125BSMR will be a problem. We can consider I-44 within the project limits "rural". However, taking the mix down to a BMSR from a BSM will ultimately slightly reduce the pavement design/life cycle and should be evaluated with the reduction in design life in mind, i.e., this VE is not an equivalent design substitution.

Let me know if you have any additional questions.

Thomas J. Anna
1617 Missouri Blvd.
P.O. Box 270
Jefferson City, MO 65102
Office: 573-522-1948
Fax: 573-751-8682



Brian A Williams/SC/MODOT



Brian A Williams/SC/MODOT
04/07/2009 09:31 AM

To Thomas J Anna/SC/MODOT@MODOT
cc
Subject Fw: VE J9I0603

Tom,

I would like to discuss this VE with you.

Brian A. Williams, PE
Construction and Materials Liaison Engineer
Phone (573) 751-2806
Cell (573) 301-2583
Fax (573) 526-4354
brian.williams@modot.mo.gov

----- Forwarded by Brian A Williams/SC/MODOT on 04/07/2009 09:30 AM -----

Victoria L Woods/D9/MODOT

04/06/2009 03:35 PM

To Mike L Wake/D9/MODOT@MODOT, Brian A
Williams/SC/MODOT@MODOT, "Gonzalez, Felix"
<Felix.Gonzalez@fhwa.dot.gov>
cc Judy E Talbert/D9/MODOT@MODOT
Subject VE J9I0603
I-44 Pulaski

Attached is VE proposal submitted by Bross for I-44 Pulaski. Specifically this VE relates to a change in the mix design from SMA to SMR. I recommend approval of the proposal as 50/50 VE; an SMR mix will allow use of local materials.

The hard copy of the VE will be routed for your signature.



J9I0603 VE Proposal #1.pdf

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

This is a Practical Design VE. Because this project can be classified as "rural", the asphalt mix change from SP125BSM to SP125BSMR is approved.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.
